

# **Roger A. Mitchell**

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## **OBJECTIVE**

Provide software solutions using my skills in software development and management.

## **SUMMARY**

- More than 24 years experience in the design, implementation, and technical management of software systems.
- More than 15 years experience in project and staff management.
- Specializing in real-time and embedded data acquisition and control systems; graphical user interfaces; and data management and analysis systems.
- Continued working as a lead software developer during management positions.

## **RELEVANT SKILLS AND ACCOMPLISHMENTS**

### **Project and Staff Management**

- Founded Roadrunner Software Solutions.
- Group Leader of Algorithms, Analysis, and Data Systems Group at Boeing-SVS.
- Lead for developing the organization-wide Software Engineering Institute-Capability Maturity Model (SEI-CMM) process for Boeing-SVS.
- Work Breakdown Structure (WBS) manager of Airborne Laser (ABL) ground systems and data systems with responsibility for overall performance of four projects and overseeing four program managers and a \$5 million budget.
- Project manager and technical lead for the data management and analysis system for the Air Force's Airborne Laser (ABL) program.
- Data analysis lead for the Air Force's Advanced Tactical Laser (ATL) program.
- Software lead for buried land mine detection project (IGGMDT).
- Program management and software lead of other software projects and teams.

### **Software Development**

- Designed and developed the data analysis software (LSDAT) used by all of the data analysis staff of the Air Force's Advanced Tactical Laser (ATL) program.
- Designed and developed more than 20 separate graphical user interfaces to COTS and custom systems, primarily in Java and C++.
- Lead developer of the HERMES III Control and Monitor System to control the 15-terawatt HERMES III accelerator at Sandia National Laboratories.
- Developed software used in embedded multiprocessor systems for satellites in the Air Force's Technology for Autonomous Operational Survivability (TAOS) and Defense Meteorological Satellite (DMS) programs.

### **Languages, Tools, and Operating Systems**

- C, C++, Java, HTML, JavaScript, ASP, Visual Basic, VBScript, Matlab, FORTRAN, Ada, assembly languages.
- Windows, UNIX, Linux, HP\_UX, VMS, VxWorks, HP-RT, Lynx.
- Visual Studio, Microsoft Office, Microsoft Project, Matlab, LabView, CASE tools and object-oriented and structured-design methodologies.

### **EMPLOYMENT HISTORY**

2009 to present     Roadrunner Software Solutions [www.roadrunnersoftware.com](http://www.roadrunnersoftware.com)  
President – Software Engineer

2009 to present     GAITS  
Programmer Analyst on contract to Sandia National Laboratories

1997 to 2009        Boeing - SVS Inc., Albuquerque, New Mexico  
Senior Principal Engineer, Real Time Systems - 2004 to present  
Senior Manager, Algorithms, Analysis and Data Systems Group -  
2001 to 2004  
Principal Engineer - 1997 to 2001

1994 to 1997        EG&G MSI, Albuquerque, New Mexico  
Engineering Specialist - Software Engineering

1986 to 1994        Ktech Corporation, Albuquerque, New Mexico  
Senior Software Engineer

### **SECURITY CLEARANCES**

Department of Energy L clearance - October 2009 to present  
Department Of Defense Top Secret SCI SSBI - December 1997 to October 2009.  
Department of Energy Q clearance - August 1986 to February 1994.

### **EDUCATION**

B.E. Biomedical Engineering, University of New Mexico, 1985. Specialty: Computer Engineering.

### **PUBLICATIONS**

Mitchell, R. A., "STL Global Control System, Technical Reference,"  
SAND90-7003, Sandia National Laboratories, Albuquerque, NM, January 1990.

Mitchell, R. A., "HERMES III Control and Monitor System, Technical Reference,"  
SAND90-1522, Sandia National Laboratories, Albuquerque, NM, May 1990.